

POWER OF ATTORNEY FROM ASSIGNEE

HGS Ref: PF453

Human Genome Sciences, Inc., a corporation of Delaware, having a principal place of business at 9410 Key West Avenue, Rockville, MD 20850, is assignee of Gregg A. Hastings and Steven M. Ruben's entire right, title and interest for the United States of America (as defined in 35 U.S.C. § 100), by reason of an Assignment to the Assignee executed on 4/2/00 and 4/10/00, respectively of an invention known as Meth1 and Meth2 Polynucleotides and Polypeptides (Attorney Docket No. 1488.1070006/EKS/AJK), which is disclosed and claimed in a patent application of the same title by the inventor(s) Gregg A. Hastings and Steven M. Ruben (said application filed on August 13, 1999 at the U.S. Patent and Trademark Office, having Application Number 09/373,658).

The Assignee hereby appoints the following U.S. attorneys and/or agents to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith: Robert Greene Sterne, Esq., Reg. No. 28,912; Edward J. Kessler, Esq., Reg. No. 25,688; Jorge A. Goldstein, Esq., Reg. No. 29,021; Samuel L. Fox, Esq., Reg. No. 30,353; David K.S. Cornwell, Esq., Reg. No. 31,944; Robert W. Esmond, Esq., Reg. No. 32,893; Tracy-Gene G. Durkin, Esq., Reg. No. 32,831; Michele A. Cimbala, Esq., Reg. No. 33,851; Michael B. Ray, Esq., Reg. No. 33,997; Robert E. Sokohl, Esq., Reg. No. 36,013; Eric K. Steffe, Esq., Reg. No. 36,688; Michael Q. Lee, Esq., Reg. No. 35,239; Steven R. Ludwig, Esq., Reg. No. 36,203; Raz E. Fleshner, Esq., Reg. No. 34,331; John M. Covert, Esq., Reg. No. 38,759; and Linda E. Alcorn, Esq., Reg. No. 39,588, as well as James H. Davis, Esq., Registration No. 40,582; Kenley K. Hoover, Esq., Registration No. 40,302; Joseph J. Kenny, Registration No. 43,710; Michele M. Wales, Registration No. 43,975; Michelle S. Marks, Registration No. 41,971; and Jonathan L. Klein, Registration No. 41,119. The Assignee hereby grants said attorneys and/or agents the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

Send correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 New York Avenue, N.W.
Suite 600
Washington, D.C. 20005-3934
U.S.A.

Direct phone calls to 202-371-2600.

FOR: Human Genome Sciences, Inc.

SIGNATURE: James H. Davis

BY: James H. Davis

TITLE: Senior Vice President and General Counsel

DATE: April 24, 2000

POWER OF ATTORNEY FROM ASSIGNEE

HGS Ref: PF453

Beth Israel-Deaconess Medical Center, a corporation of Massachusetts, having a principal place of business at 330 Brookline Avenue, Boston, MA 02215, is assignee of Luisa Iruela-Arispe's entire right, title and interest for the United States of America (as defined in 35 U.S.C. § 100), by reason of an Assignment to the Assignee executed on March 27, 2000 of an invention known as Meth1 and Meth2 Polynucleotides and Polypeptides (Attorney Docket No. 1488.1070006/EKS/AJK), which is disclosed and claimed in a patent application of the same title by the inventor(s) Luisa Iruela-Arispe (said application filed on August 13, 1999 at the U.S. Patent and Trademark Office, having Application Number 09/373,658).

The Assignee hereby appoints the following U.S. attorneys and/or agents to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith: Robert Greene Sterne, Esq., Reg. No. 28,912; Edward J. Kessler, Esq., Reg. No. 25,688; Jorge A. Goldstein, Esq., Reg. No. 29,021; Samuel L. Fox, Esq., Reg. No. 30,353; David K.S. Cornwell, Esq., Reg. No. 31,944; Robert W. Esmond, Esq., Reg. No. 32,893; Tracy-Gene G. Durkin, Esq., Reg. No. 32,831; Michele A. Cimbala, Esq., Reg. No. 33,851; Michael B. Ray, Esq., Reg. No. 33,997; Robert E. Sokohl, Esq., Reg. No. 36,013; Eric K. Steffe, Esq., Reg. No. 36,688; Michael Q. Lee, Esq., Reg. No. 35,239; Steven R. Ludwig, Esq., Reg. No. 36,203; Raz E. Fleshner, Esq., Reg. No. 34,331; John M. Covert, Esq., Reg. No. 38,759; and Linda E. Alcorn, Esq., Reg. No. 39,588, as well as James H. Davis, Esq., Registration No. 40,582; Kenley K. Hoover, Esq., Registration No. 40,302; Joseph J. Kenny, Registration No. 43,710; Michele M. Wales, Registration No. 43,975; Michelle S. Marks, Registration No. 41,971; and Jonathan L. Klein, Registration No. 41,119. The Assignee hereby grants said attorneys and/or agents the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

Send correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 New York Avenue, N.W.
Suite 600
Washington, D.C. 20005-3934
U.S.A.

Direct phone calls to 202-371-2600.

FOR: Beth Israel Deaconess Medical Center

SIGNATURE: 

BY: Barry Eisenstein

TITLE: Vice President, Science & Technology

DATE: 3/30/00

POWER OF ATTORNEY FROM ASSIGNEE

HGS Ref: PF453

SmithKline Beecham Corporation, a corporation of Pennsylvania, having its principal place of business at 709 Swedeland Road, Mail code- UW2220, King of Prussia, Pennsylvania 19406, is assignee of Zdenka L. JONAK, Stephen H. TRULLI, James A. FORNWALD, and Jonathon A. TERRET's entire right, title and interest for the United States of America (as defined in 35 U.S.C. § 100), by reason of an Assignment to the Assignee executed on _____ of an invention known as Meth1 and Meth2 Polynucleotides and Polypeptides (Attorney Docket No. 1488.1070006/EKS/AJK), which is disclosed and claimed in a patent application of the same title by the inventors Zdenka L. JONAK, Stephen H. TRULLI, James A. FORNWALD, and Jonathon A. TERRET (said application filed on August 13, 1999 at the U.S. Patent and trademark Office, having Application Number 09/373,658).

The Assignee hereby appoints the following U.S. attorneys and/or agents to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith: Robert Greene Sterne, Esq., Reg. No. 28,912; Edward J. Kessler, Esq., Reg. No. 25,688; George A. Goldstein, Esq., Reg. No. 29,021; Samuel L. Fox, Esq., Reg. No. 30,353; David K.S. Cornwell, Esq., Reg. No. 31,944; Robert W. Esmond, Esq., Reg. No. 32,893; Tracy-Gene G. Durkin, Esq., Reg. No. 32,831; Michele A. Cimbala, Esq., Reg. No. 33,851; Michael B. Ray, Esq., Reg. No. 33,997; Robert E. Sokohl, Esq., Reg. No. 36,013; Eric K. Steffe, Esq., Reg. No. 36,688; Michael Q. Lee, Esq., Reg. No. 35,239; Steven R. Ludwig, Reg. No. 36,203; Raz E. Fleshner, Esq., Reg. No. 34,331; John M. Covert, Esq., Reg. No. 38,759, and Linda E. Alcorn, Esq. Reg. No. 39,588, as well as James H. Davis, Esq., Registration No. 40,582; Kenley K. Hoover, Esq., Registration No. 40,302; Joseph J. Kenny, Registration No. 43,710; Michele M. Wales, Registration No. 43,975; Michelle S. Marks, Registration No. 41,971; and Jonathan L. Klein, Registration No. 41,119. The Assignee hereby grants said attorneys and/or agents the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office.

Send Correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 New York Avenue, N.W.
Suite 600
Washington, D.C. 20005-3934
U.S.A.

Direct phone calls to 202-371-2600

FOR: SmithKline Beecham Corporation

SIGNATURE: Stephen Venetianer

NAME: Stephen Venetianer

TITLE: Vice President, Pharmaceuticals

DATE: 10 April 2000

Certificate Under 37 C.F.R. § 3.73(b)

HGS Ref: PF453

Docket Number 1488.1070006/EKS/AJK

Applicant/Patent Owner: Luisa IRUELA-ARISPE, Gregg A. HASTINGS, Steven M. RUBEN, Zdenka L. JORAK, Stephen H. TRULLI, James A. FORNWALD, and Jonathan A. TERRET

Application No./Patent No.: 09/373,658 Filed/Issue Date: August 13, 1999

Entitled: Meth1 and Meth2 Polynucleotides and Polypeptides

Human Genome Sciences, Inc.

(Name of Assignee)

, a

Corporation

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☐ the assignee of the entire right, title, and interest, or
2. ☒ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

- A. ☒ An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (*i.e.*, the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

Date: April 24, 2000

Name: James H. Davis

Title: Senior Vice President, General Counsel and Secretary

Signature: James H. Davis

Certificate Under 37 C.F.R. § 3/37(b)

Applicant/Patent Owner: Luisa IRUELA-ARISPE, Gregg A. HASTINGS, Steven M. RUBEN, Zdenka L. JONAK, Stephen H. TRULLI, James A. FORNWALD, and Jonathan A. TERRET

Application No./Patent No.: 09/373,658

Filed/ Issued Date: August 13, 1999

Entitled: Meth1 and Meth2 Polynucleotides and Polypeptides

SmithKline Beecham Corporation
(Name of Assignee)

a Corporation
(Type of Assignee)

states that it is:

1. ☐ the assignee of the entire right, title and interest, or
2. ☒ an assignee of an undivided part interest

in the patent application /patent identified above by virtue of either

- A. ☒ An Assignment from the inventors of the patent application /patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy of thereof is attached.

OR

- B. ☐ A chain of title from the inventors of the patent application /patent identified above to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in Patent and Trademark Office at
Reel _____, Frame _____ or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in Patent and Trademark Office at
Reel _____, Frame _____ or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in Patent and Trademark Office at
Reel _____, Frame _____ or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

The Undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

Date: 10 April 2000

Name: Stephen Venetianer

Title: Vice President, Pharmaceuticals

Signature: Stephen Venetianer

ASSIGNMENT

HGS Ref: PF453

Docket Number: 1488.1070006/EKS/AJK

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): Gregg A. HASTINGS, and Steven M. RUBEN, the undersigned inventor(s) hereby sell(s) and assign(s) to Human Genome Sciences, Inc. (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),
☒ and throughout the world,

(a) in the invention(s) known as Meth1 and Meth2 Polynucleotides and Polypeptides for which application(s) for patent in the United States of America has (have) been executed by the undersigned on April 2, 2000 and April 10, 2000, respectively (also known as United States Application No. 09/373,658, filed August 13, 1999), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; and Steven R. Ludwig, Registration No. 36,203, of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document, as well as James H. Davis, Esq., Registration No. 40,582; Kenley K. Hoover, Esq., Registration No. 40,302; Joseph J. Kenny, Registration No. 43,710; Michele M. Wales, Registration No. 43,975; Michelle S. Marks, Registration No. 41,971; and Jonathan L. Klein, Registration No. 41,119, all of Human Genome Sciences, Inc., Assignee of the captioned application.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: 4/2/00 Signature of Inventor: Gregg A. Hastings
Gregg A. HASTINGS

Date: 4/10/00 Signature of Inventor: Steven M. Ruben
Steven M. RUBEN

ASSIGNMENT

Docket Number: 1488.1070006/EKS/AJK
HGS Ref: PF453

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): Luisa IRUELA-ARISPE, the undersigned inventor(s) hereby sell(s) and assign(s) to Beth Israel Deaconess Medical Center (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),
☒ and throughout the world,

(a) in the invention(s) known as Meth1 and Meth2 Polynucleotides and Polypeptides
for which application(s) for patent in the United States of America has (have) been executed by
the undersigned on March 30, 2000
(also known as United States Application No. 09/373,658, filed
August 13, 1999), in any and all applications thereon, in any and all Letters Patent(s) therefor,
and

(b) in any and all applications that claim the benefit of the patent application listed above in part
(a), including continuing applications, reissues, extensions, renewals and reexaminations of the
patent application or Letters Patent therefor listed above in part (a), to the full extent of the term
or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any
and all forms of intellectual and industrial property protection derivable from such patent
application, and that are derivable from any and all continuing applications, reissues, extensions,
renewals and reexaminations of such patent application, including, without limitation, patents,
applications, utility models, inventor's certificates, and designs together with the right to file
applications therefor; and including the right to claim the same priority rights from any previously
filed applications under the International Agreement for the Protection of Industrial Property, or
any other international agreement, or the domestic laws of the country in which any such
application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal
representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed
by the Assignor had this assignment and sale not been made.


The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s)
and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding
application(s) thereof and also to execute separate assignments in connection with such application(s) as the
Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference
or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation,
divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the
Assignee in every way possible in obtaining evidence and going forward with such interference or patent
enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest
herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; and Steven R. Ludwig, Registration No. 36,203, of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document, as well as James H. Davis, Esq., Registration No. 40,582; Kenley K. Hoover, Esq., Registration No. 40,302; Joseph J. Kenny, Registration No. 43,710; Michele M. Wales, Registration No. 43,975; Michelle S. Marks, Registration No. 41,971; and Jonathan L. Klein, Registration No. 41,119, all of Human Genome Sciences, Inc., Assignee of the captioned application.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: 03/27/00 Signature of Inventor: 
Luisa IRUELA-ARISPE

ASSIGNMENT

Docket Number: 1488.1070006/EKS/AJK
HGS Ref: PF453

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): Zdenka L. FORAK, Stephen H. TRULLI, James A. FORNWALD, and Jonathan A. TERRET, the undersigned inventor(s) hereby sell(s) and assign(s) to SmithKline Beecham Corporation (the Assignee) his/her entire right, title and interest, including the right to sue for and collect for all past, present and future damages:

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),
☒ and throughout the world,

(a) in the invention(s) known as Meth1 and Meth2 Polynucleotides and Polypeptides for which application(s) for patent in the United States of America has (have) been executed by the undersigned on _____

_____ (also known as United States Application No. 09/373,658, filed August 13, 1999) in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.


The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbal, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; and Steven R. Ludwig, Registration No. 36,203, of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document, as well as James H. Davis, Esq., Registration No. 40,582; Kenley K. Hoover, Esq., Registration No. 40,302; Joseph J. Kenny, Registration No. 43,710; Michele M. Wales, Registration No. 43,975; Michelle S. Marks, Registration No. 41,971; and Jonathan L. Klein, Registration No. 41,119, all of Human Genome Sciences, Inc., Assignee of the captioned application.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: _____ Signature of Inventor: _____
Zdenka L. JORAK

Date: _____ Signature of Inventor: _____
Stephen H. TRULLI

Date: _____ Signature of Inventor: _____
James A. FORNWALD

Date: 26/4/00 Signature of Inventor: 
Jonathan A. TERRETT

JAT 26/4/00

ASSIGNMENT

Docket Number: 1488.1070006/EKS/AJK
HGS Ref: PF453

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): Zdenka L. JORAK, Stephen H. TRULLI, James A. FORNWALD, and Jonathan A. TERRET, the undersigned inventor(s) hereby sell(s) and assign(s) to SmithKline Beecham Corporation (the Assignee) his/her entire right, title and interest, including the right to sue for and collect for all past, present and future damages:

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),
☒ and throughout the world,

(a) in the invention(s) known as Meth1 and Meth2 Polynucleotides and Polypeptides for which application(s) for patent in the United States of America has (have) been executed by the undersigned on _____ (also known as United States Application

No. 09/373,658, filed August 13, 1999) in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

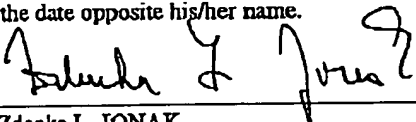
The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.


The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventors hereby grants Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; George A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; and Steven R. Ludwig, Registration No. 36,203, of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600 Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document, as well as James H. Davis, Esq., Registration No. 40,582; Kenley K. Hoover, Esq., Registration No. 40,302; Joseph J. Kenny, Registration No. 43,710; Michele M. Wales, Registration No. 43,975; Michelle S. Marks, Registration No. 41,971; and Jonathan L. Klein, Registration No. 41,119, all of Human Genome Sciences, Inc., Assignee of the captioned application.

In Witness Whereof, executed by the undersigned inventors on the date opposite his/her name.

Date: 4/25/2000 Signature of Inventor 
Zdenka L. JONAK

Date: 4/25/2000 Signature of Inventor 
Stephen H. TRULLI

Date: 4-27-2000 Signature of Inventor 
James A. FORNWALD

Date: _____ Signature of Inventor _____
Jonathon A. TERRET